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APPLICATION NO.	NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/737,410	12/16/2003		Sang-Hee Kang	51876P445 7603	
8791	7590	04/04/2005		EXAM	MINER
BLAKELY S	SOKOLOFF	LE, THONG QUOC			
12400 WILSH	IIRE BOULE	VARD		<u> </u>	
SEVENTH FI	LOOR			ART UNIT	PAPER NUMBER
LOS ANGELI	ES. CA 9002	25-1030		2827	

DATE MAILED: 04/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/737,410	KANG, SANG-HEE					
Office Action Summary	Examiner	Art Unit					
	Thong Q. Le	2827					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on							
2a) This action is <b>FINAL</b> . 2b) ⊠ This	· · · · · · · · · · · · · · · · · · ·						
3) Since this application is in condition for allowa	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims	·	,					
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>1-12</u> is/are allowed.							
6)⊠ Claim(s) <u>13 and 14</u> is/are-rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>16 December 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
1.⊠ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)	_						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Ll Interview Summary Paper No(s)/Mail Da						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) Notice of Informal Patent Application (PTO-152)							
Paper No(s)/Mail Date 1203	6) Other:						
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)  Office Ac	ction Summary	Part of Paper No./Mail Date 1					

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### **DETAILED ACTION**

1. Claims 1-14 are presented for examination.

## Information Disclosure Statement

- This office acknowledges receipt of the following items from the Applicant:
   Information Disclosure Statement (IDS) filed on 12/16/2003.
- 3. Information disclosed and list on PTO 1449 was considered.

## **Priority**

4. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

#### Specification

5. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

### **Drawings**

6. The Figure 4 is objected to because the Figure includes a foreign language.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and

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where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

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8. Claims 13-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Lee (U.S. Patent No. 6,661,714).

Regarding claim 13, Lee discloses a semiconductor memory device (Figure 4) comprising:

a sense amplifier array unit (S1-S4) including a plurality of bit-line sense amplifiers arrayed to each other;

a driver (SW1), located at one side of the sense amplifier array unit, for generating a driving voltage the plurality of bit-line sense amplifiers;

a first power line (LAPG), which is connected to an output node of the driver, and to which a driving voltage input node of each of the plurality of bit-line sense amplifiers is attached in parallel; and

a second power line (LA), connected to the first power line parallel at the output node of the driver, and strapped with the first power line at least one point (LA and LAPG strapped at SW1).

Regarding claim 14, Lee discloses a semiconductor memory device (Figure 4) comprising:

a sense amplifier array unit (S1-S4) including a plurality bit-line sense amplifiers arrayed to each other, wherein each bit-line sense amplifier has a first driving voltage input node being a pull-up source and a second driving voltage input node being a pull-down source of bit lines;

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a driver (Figure 4, 47, Figure 5), located at one side of the sense amplifier array unit, for generating a first and a second driving voltage of the plurality of bit-line sense amplifiers;

a first power line (Figure 5, LAPG), which is connected to a first driving voltage output node of the driver, and to which a first driving voltage input node of each of the plurality of bit-line sense amplifiers is attached in parallel;

a second power line (Figure 4, LA), connected to the driving voltage output node of the driver, and strapped with the first power line at least one point (SW1);

a third power line (Figure 4, LAB), which connected to a second driving voltage output node of the driver, and to which a second driving voltage input node of said each of the plurality of bit-line sense amplifiers is attached parallel; and

a fourth power line (Figure 4, LANG), connected to the second driving voltage output node of the driver, and strapped with the third power line at least one point (SW2).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thong Q. Le whose telephone number is 571-272-1783. The examiner can normally be reached on 8:00am-5:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoai V. Ho can be reached on 571-272-1777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thong Q. Le Primary Examiner Art Unit 2827

hoyle

THONG LEG